

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

SUB E17

1. (Currently Amended) A method for determining computer hardware requirements
2 for a yet-to-be built database management system server using user defined workload
3 requirements, the method comprising the steps of:
4 obtaining at least one user defined workload requirement, the user defined workload
5 requirement includes a plurality of inputs from a user including a maximum desired processor
6 utilization, and a transactions per second requirement;
7 determining the database management system server hardware requirements for the yet-
8 to-be built database management system server as a function of said user defined workload
9 requirement; and
10 outputting said yet-to-be built database management system server requirements.

1 2. (Canceled).

1 2. 3. (Currently Amended) A method for determining computer hardware requirements
for a yet-to-be built database management system server using user defined workload
C2 3 requirements, the method comprising the steps of:
4 obtaining at least one user defined workload requirement;
5 determining the database management system server hardware requirements for the yet-
6 to-be built database management system server as a function of said user defined workload

7 requirement; and

8 outputting said yet-to-be built database management system server requirements, wherein
9 said database management system server requirements A method according to claim 1, wherein
10 said outputs include a number of processors requirement, a memory size requirement, and a mass
11 storage requirement for the yet-to-be built database management system server.

1 4. ~~(Currently Amended) A method for determining computer hardware requirements~~
2 ~~for a yet-to-be built database management system server using user defined workload~~
3 ~~requirements, the method comprising the steps of:~~

4 ~~obtaining at least one user defined workload requirement;~~
5 ~~determining the database management system server hardware requirements for the yet-~~
6 ~~to-be built database management system server as a function of said user defined workload~~
7 ~~requirement; and~~

8 outputting said yet-to-be built database management system server requirements, wherein
9 said database management system server requirements include A method according to claim 1,
10 wherein said outputs comprise properties including an expected effective CPU utilization for the
11 yet-to-be built database management system server based on the user defined workload
12 requirements.

1 5. ~~(Currently Amended) A method for determining computer hardware requirements~~
2 ~~for a yet-to-be built database management system server using user defined workload~~
3 ~~requirements, the method comprising the steps of:~~

4 obtaining at least one user defined workload requirement;
5 determining the database management system server hardware requirements for the yet-
6 to-be built database management system server as a function of said user defined workload
7 requirement; and
8 outputting said yet-to-be built database management system server requirements, wherein
9 said database management system server requirements include A method according to claim 1,
10 wherein said outputs comprise properties including an expected number of users that can be
11 supported by the yet-to-be built database management system server based on the user defined
12 workload requirements.

1 6. (Currently Amended) A method according to claim [[1]] 5, wherein said outputs
2 comprise properties including database management system server requirements includes an
3 expected effective CPU utilization of and an expected number of users supported by the yet-to-
4 be built database management system server based on the user defined workload requirements.

1 7. (Currently Amended) A method for determining computer hardware requirements
2 for a yet-to-be built database management system server using user defined workload
3 requirements, the method comprising the steps of:
4 obtaining at least one user defined workload requirement;
5 determining the database management system server hardware requirements for the yet-
6 to-be built database management system server as a function of said user defined workload
7 requirement; and

8 ~~outputting said yet-to-be built database management system server requirements, wherein~~
9 ~~said database management system server requirements A method according to claim 1,~~
10 ~~wherein said user defined workload requirement[[s]] includes a baseline system~~
11 ~~transactions per second, and said output[[s]] includes a calculated transactions per second value,~~
12 ~~and a ratio of said calculated transactions per second to said baseline transactions per second, and~~
13 ~~wherein said determining step determines values for said calculated transactions per second and~~
14 ~~said transactions per second ratio.~~

C2
1 8. (Previously Presented) A method for determining computer hardware
2 requirements for a yet-to-be-built database management system server using a user-defined
3 workload, the method comprising the steps of:
4 obtaining from a user a plurality of transaction definitions, wherein each of said
5 transactions definitions have a transaction workload contribution and an expected execution rate
6 per second;
7 calculating a total expected workload as a function of said transaction definitions; and
8 outputting said total workload to said human user.

1 9. (Previously Presented) A method according to claim 16, further comprising
2 the step of obtaining a server type from said user.

1 10. (Previously Presented) A method according to claim 16, further comprising
2 the step of obtaining a maximum desired processor utilization.

1 11. (Previously Presented) A method according to claim 16, further comprising
2 the step of obtaining a maximum desired network interface card utilization.

1 12. (Previously Presented) A method according to claim 16, further comprising
2 the step of obtaining a server type, a LAN speed, a maximum desired processor utilization, and a
3 maximum desired network interface card utilization.

1 13. (Previously Presented) A method according to claim 16, wherein at least
2 some of said transaction definitions include at least one SQL statement wherein each of said
3 transaction workloads is calculated by calculating a workload contribution of each of said SQL
4 statements.

1 14. (Previously Presented) A method according to claim 13, wherein said SQL
2 statements include insert, delete, update, and/or select SQL statement types.

1 15. (Original) A method according to claim 14, wherein
2 said insert SQL types have parameters including a number of identical insert statements,
3 and wherein said insert statement SQL workload contribution is a function of said statement
4 parameters,

5 said delete SQL types have parameters including a number identical delete statements,
6 and wherein said delete statement SQL workload contribution is a function of said statement
7 parameters,

8 said update SQL types have parameters including a number of records to be operated on
9 by said update statement, and wherein said update statement SQL workload contribution is a
10 function of said statement parameters, and

11 said select SQL types have parameters including selectivity criteria, and wherein said
12 select statement SQL workload contribution is a function of said statement parameters.

1 16. (Previously Presented) A method for determining computer hardware
2 requirements for a yet-to-be-built database management system server using a user-defined
3 workload, the method comprising the steps of:

4 obtaining from a user a plurality of transaction definitions, wherein each of said
5 transactions definitions have a transaction workload contribution and an expected execution rate
6 per second;

7 determining a total expected workload as a function of said transaction definitions; and
8 determining the database management system server hardware requirements for the yet-
9 to-be built database management system server as a function of said total expected workload.

1 17. (Previously Presented) A method according to claim 16 wherein the
2 database management system server hardware requirements includes a processor type for the yet-
3 to-be built database management system server.

1 18. (Currently Amended) A method according to claim 16 wherein the database
2 management system server hardware requirements includes a number of processors for the yet-

3 to-be built database management system server.

1 19. (Previously Presented) A method according to claim 16 wherein the
2 database management system server hardware requirements includes I/O requirements for the
3 yet-to-be built database management system server.

1 20. (Previously Presented) A method according to claim 16 wherein the
2 database management system server hardware requirements includes memory requirements for
3 the yet-to-be built database management system server.

C2
1 21. (Currently Amended) Computer executable code stored on machine readable
2 media for determining computer hardware requirements for a yet-to-be-built database
3 management system server using a user-defined workload, the computer executable code
4 performing the steps of:
5 obtaining from a user a plurality of transaction[[s]] definitions, wherein each of said
6 transaction[[s]] definitions have a transaction workload contribution and an expected execution
7 rate per second;
8 determining a total expected workload as a function of said transaction[[s]] definitions;
9 and
10 determining the database management system server hardware requirements for the yet-
11 to-be built database management system server as a function of said total expected workload.